

Asymmetric Unmanned Aerial Systems

- Service Disable Veteran Owned Small Business based in Columbus, OH with a worldwide footprint
- Founded in 2011 focused on transitioning emerging technologies into operational capability
- UAS Business Group provides UAS Flight Services, Training and Program Development
 - Started in October 2013
 - Section 333 Exemption approved February 12th, 2015







Demand and Supply Balance

Near Term Commercial Requirements (Line of Sight, Small UAS)

- Commercial sUAS are flying laptops high level of software/hardware know how, minimal maintenance and sustainment skills
- Three labor categories in current business strategy
 - Pilots currently requires high level of certification, in the future becomes a commodity
 - Visual Observer/Data Management high level of skills focused on sensors and data management
 - Team Leader understands and supervises all critical tasks, but also has business and operational smarts

Demand and Supply Balance

Long Term Requirements (Beyond Line of Sight, larger weight classes)

- More complex aircraft requiring similar approach as manned aviation
- Pilots anticipate requirement for FAA Pilots
- Dedicated Sensor Operator
- Team Leader and Mission Planner
- Maintenance Technician Avionics, Small Engineer, Sensor, ground control and launch/recovery systems

Current Gaps and Challenges

- Currently no hard marks on the wall to reach for
 - Regulatory environment hazy
 - Commercial market still taking shape
 - No standardization of systems (aircraft systems, navigation and flight control, data management, deliverables
- Uncertain labor market
 - Limited data on demand for services and utilization
 - Soft price points (directly related to compensation)
- Best source of labor right now is the military and the hobbyist community - most experience and diverse set of skills



Ideas to Improve

- Current sUAS focus training in domain specific areas
 - Most sUAS applications will be just an extension of currently used tools and techniques
- Future Beyond Line of Sight
 - Maintain ties to larger aviation community
 - Focus on multi- disciplinary skills
 - Aviation
 - Computer sciences
 - Mechanical and Avionics
 - Physical Sciences
 - Business





